User Manual

NUX Drum System

DIGITAL DRUM KIT
DM-4S\DM-4
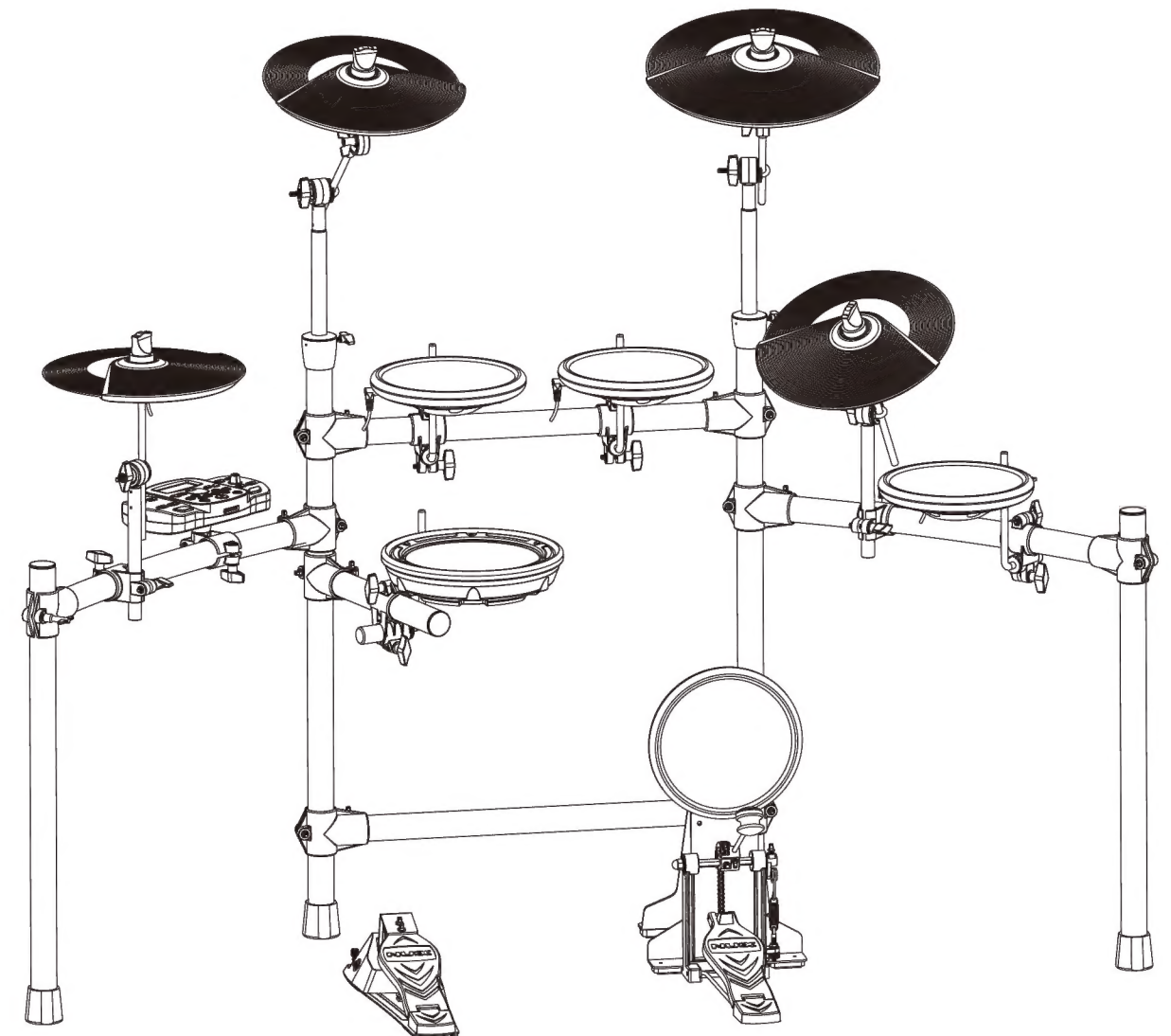
NUX

Cherub Technology Co.,Ltd
www.nuxefx.com

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠WARNING and ⚠CAUTION Notices   About the Symbol

⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used Improperly.

⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well as to domestic animals or pets.

ALWAYS OBSERVE THE FOLLOWING

⚠WARNING

● Before using this unit, make sure to read the instructions below and the Ownerds Manual.

● Do not open (or modify in any way) the unit or its AC adaptor.

● Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Cherub Service Center.

● Never use or store the unit in places that are:
Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are Damp (e.g., baths, washrooms, on wet floors); or Are Humid; or Are
Exposed to rain; or Are
Dusty; or Are
Subject to high levels of vibration.

● This unit may be installed on a stand using a Clamp.

● When installing the unit on a stand with a clamp, the stand must not be placed in an unstable location or on an incline, but in a level and stable position. Even if a stand is not used, make sure that the unit is placed in a stable location.

⚠WARNING

● Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptors body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

● Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock Hazards!

● This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an Audiologist.

● Do not allow any objects (e.g., flammable material,coins, pins); or liquids of any kind (water, soft drinks,etc.) to penetrate the unit.

⚠ WARNING

● Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Cherub Service Center.

The AC adaptor or the power-supply cord has been damaged; or
If smoke or an unusual odor occurs
Objects have fallen into, or liquid has been spilled onto the unit; or
The unit has been exposed to rain (or otherwise has become wet); or
The unit does not appear to operate normally or exhibits a marked change in performance.

● In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

● Protect the unit from strong impact.
(Do not drop it!)

● Do not force the units power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cordsthe total power used by all devices you have connected to the extension cords outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

● Before using the unit in a foreign country, consult with your retailer, the nearest Cherub Service Center.

⚠ CAUTION

● The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

● Always grasp only the output plug or the body of the AC adaptor when plugging into, or unplugging from, this unit or an outlet.

● Any accumulation of dust between the AC adaptor and the power outlet can result in poor insulation and lead to fire. Periodically wipe away such dust with a dry cloth. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time.

● Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

● Never climb on top of, nor place heavy objects on the unit.

● Never handle the AC adaptor body, or its output plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit.

● If you need to move the instrument, take note of the precautions listed below. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.
Check to make sure that the clamp that fixes the unit to the stand has not become loose. Fasten them again securely whenever you notice any loosening.
Disconnect the power cord.
Disconnect all cords coming from external devices.

● Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.

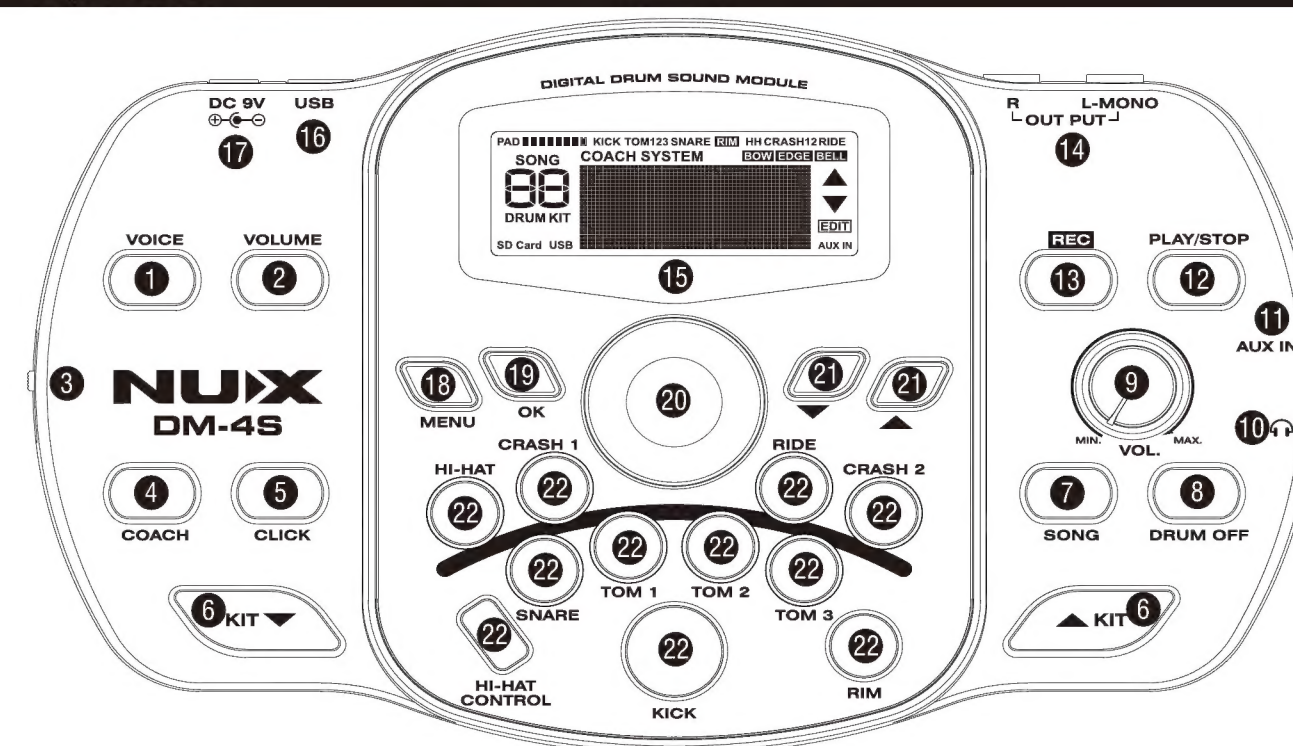● Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

● Should you remove security screws, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

CONTENTS

PANEL AND INTERFACE

Top Panel

1.VOICE Button
Press **VOICE** button to adjust the pad's voice.

2.VOLUME Button
Press **VOLUME** button to adjust the pad's volume.

3.POWER Switch
Turn on/off the power

4.COACH Button
Press **COACH** bottom to enter coach function.

5.CLICK Button
Turn on/off the metronome.

6.KIT▲▼ Buttons
Press ▲▼ to switch drum kits.

7.SONG Button
Select demo songs.

8.DRUM OFF Button
Mute the drum part from demo song.

9.VOLUME Knob
Adjust the volume of the OUTPUT and HEADPHONE jacks.

10.HEADPHONE Jack

11.AUX IN Jack
For connecting an external audio source such as MP3 or CD player. All sound input here will be sent to the OUTPUT and HEADPHONE jacks.

12.PLAY Button
Play what you recorded, and the demo songs.

13.REC Button
Press **REC** button to record your playing.

14.OUTPUT Jack (L/MONO, R)
These are the main stereo outputs. If you only output mono signal, use only the **L/MONO** jack.

15.LCD Display
This shows the drum kit name, song's name and other information. During editing, this shows the contents of the settings.

16.USB Port

17.DC IN Jack
Connect the 9V DC adaptor here.

18.MENU Button.
Press **MENU** button to enter the main menu.

19.OK Button
Use this to confirm a value you've edited.

20.VALUE Knob
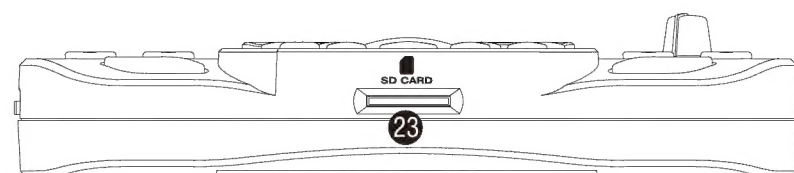Adjust the parameter you are editing.

21. ▲ and ▼ Buttons
Choose the menu item you want to edit.

22.Drum Pad Buttons
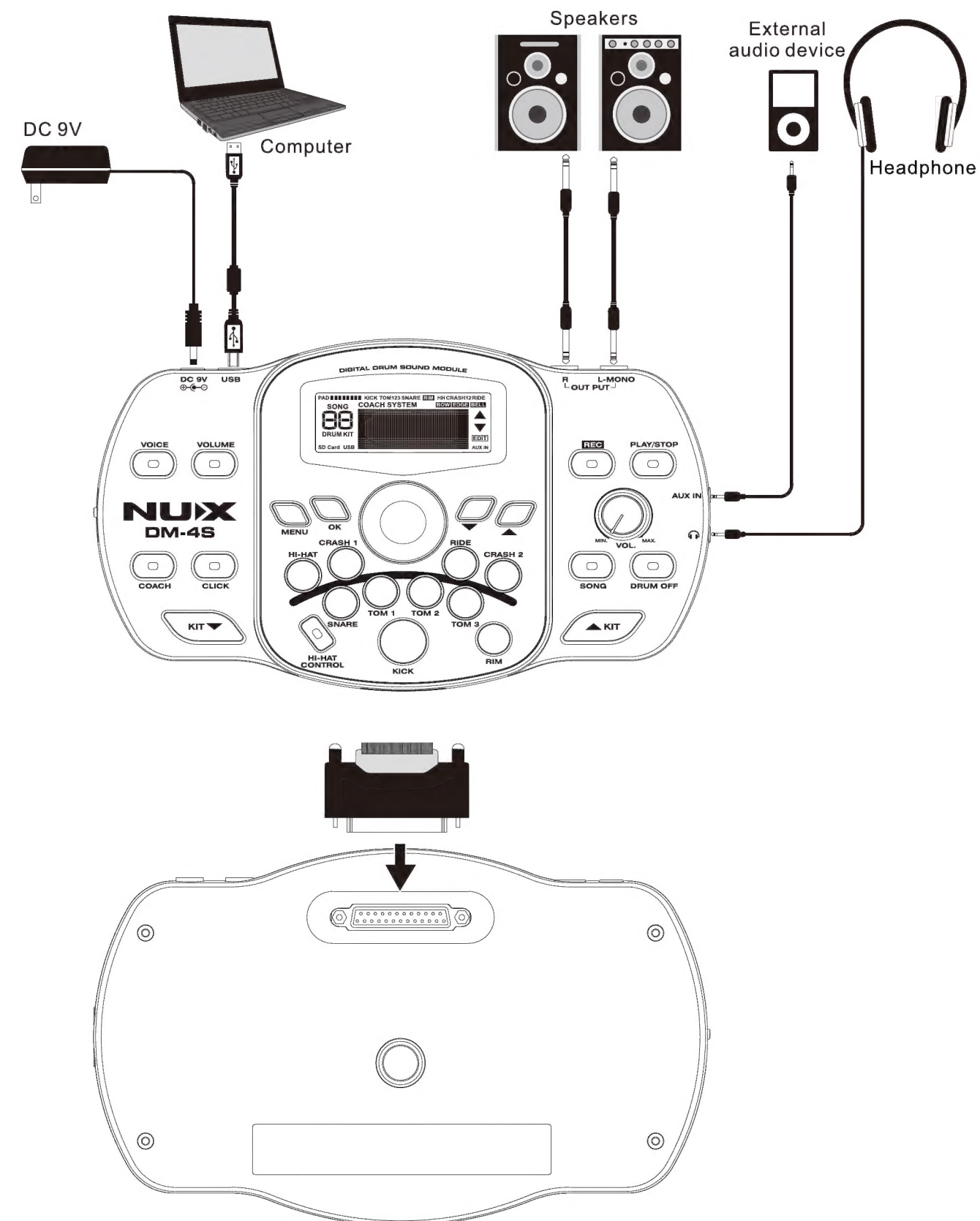Press the drum pad button to choose it and make a corresponding sound.

Front Panel

23.SD Card Slot
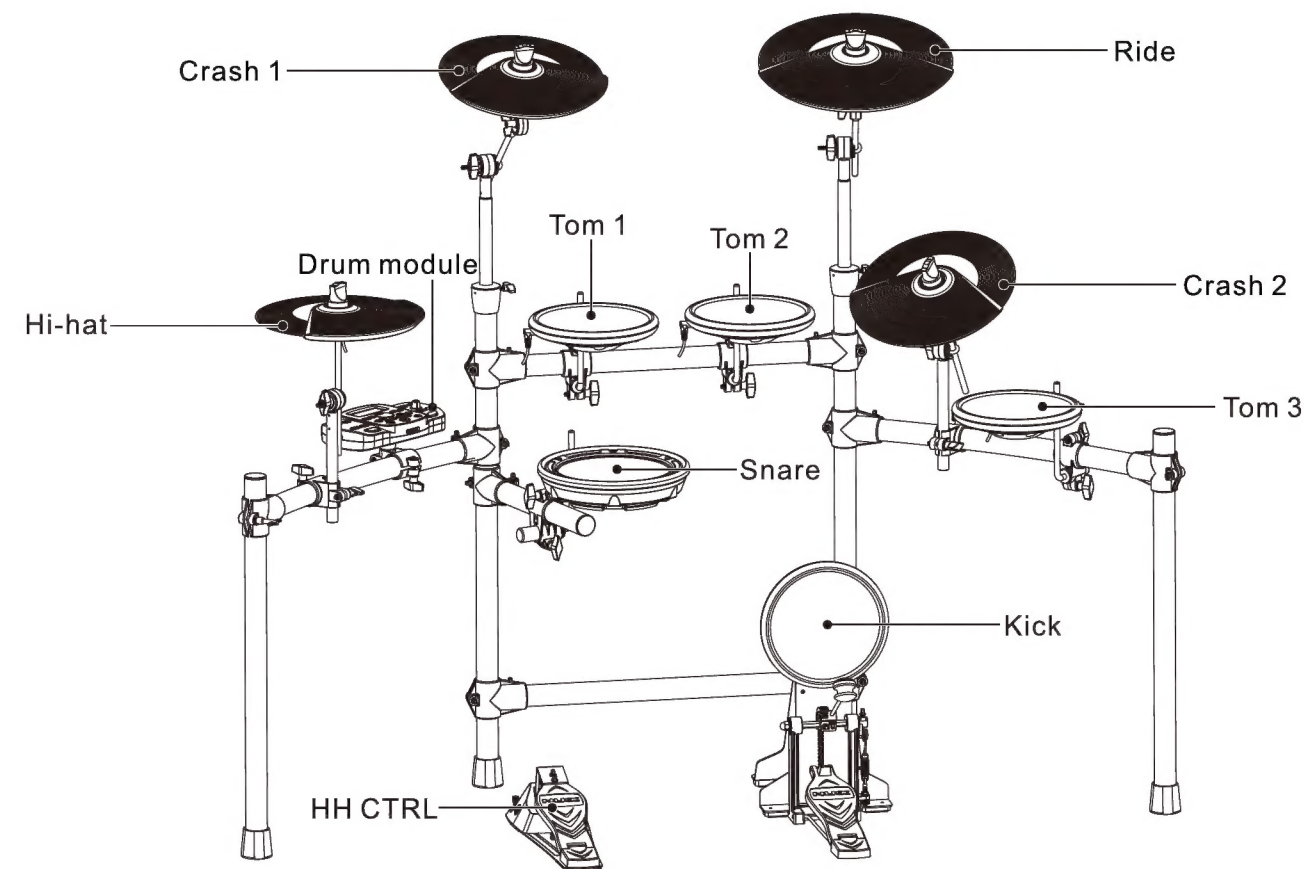For MIDI song playing through SD card.

CONNECTION

NOTE:
To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making connections.

MOUNTING THE DM-4S/DM-4 ON THE STAND

Crash 1

Ride

Drum module

Tom 1

Tom 2

Crash 2

Hi-hat

Tom 3

Snare

Kick

HH CTRL

1. Attach the included sound module mounting plate to the DM-4S/DM-4.
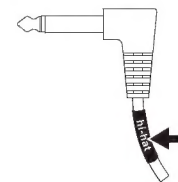   Use included wing bolts to attach the plate as shown in the illustration.
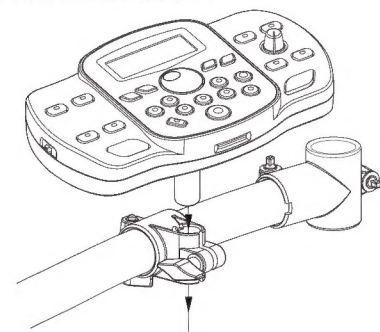
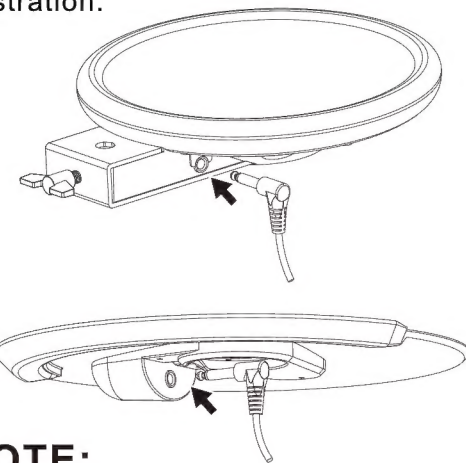2. Attach the DM-4S/DM-4 (with the sound module mounting plate installed) to your drum stand.

3. Connect the included cable to the DM-4S/DM-4 TRIGGER IN connector, and connect your pads and pedals.
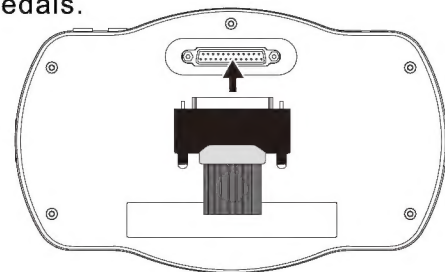
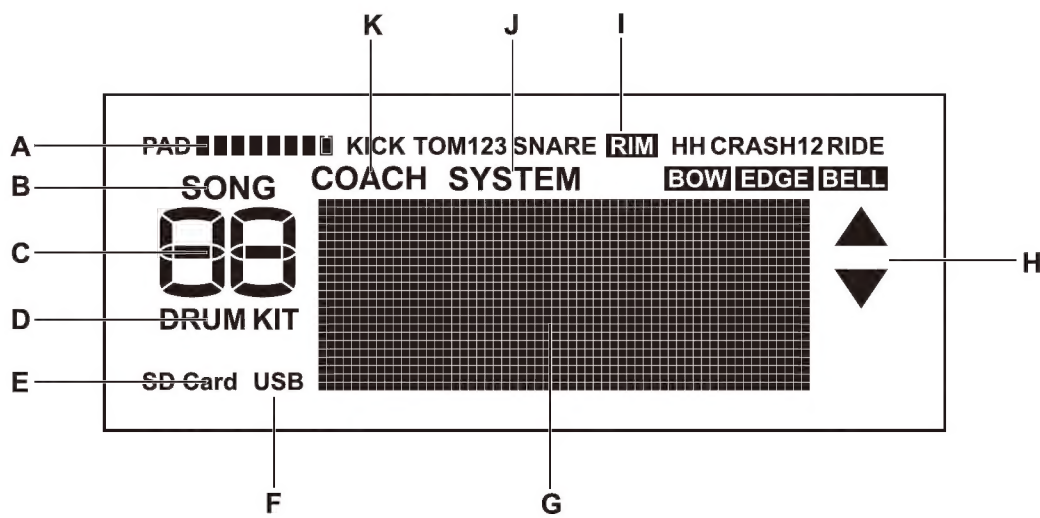Labels indicating the pad to be connected are attached to the cable.

Connect the pads and pedals as shown in the illustration.

NOTE:
To protect device, when connect to device, please power off.

SCREEN DISPLAY

A. Strength of the pad strike displayed in 8 levels.

B. SONG indicator

C. Drum kit number or SONG number

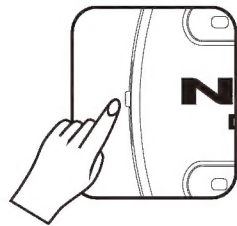D. Drum kit indicator

E. SD card indicator

F. USB connection indicator

G. Dot matrix area

H. ▲ and ▼ indicator

I. Pad name display

J. SYSTEM setting indicator

K. COACH function indicator

READY TO PLAY

Turn ON/OFF the Power

*Turn on the power

1. Turn the VOL knob to the minimum.
2. Adjuct the volume of the connected amp or audio system to the minimum.
3. Turn the power switch to ON.

*Turn off the power

1. Turn the volume of DM-4S/DM-4 and external equipments to the minimum.
2. Power off the external equipment.
3. Turn the power switch to OFF.

```
Welcome to
 NUX-DRUM
```

*You may still hear some sound when the power is switched on, this is normal, and does not indicate a malfunction.

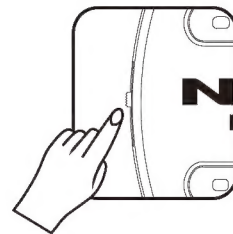After power on, LCD will display drum kit number and name.

Pad velocity
PAD
Drum kit Number
01PRKit1
DRUM KIT
Preset
Drum kit name
Preset or User

NOTE: *Preset indicate preset Drum Kit; User indicate user Drum kit*

4. Power on the external amp or audio system.
5. While hitting a pad, gradually turn the VOL knob toward the right to adjust the volume.

Performance Techniques

*Snare

Head Shot
Hit only the head of the pad.

Head

(DM-4 Rubber Snare Drum Pad)
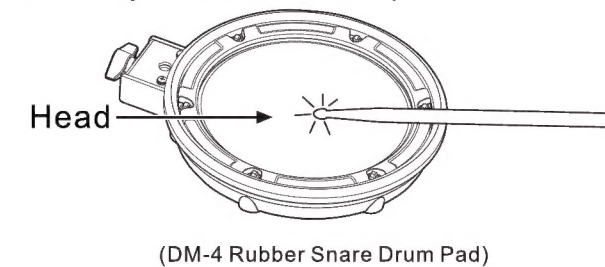
Open Rim Shot
Strike the rim of the pad.

Rim

(DM-4 Rubber Snare Drum Pad)

*Tom

Head Shot
Hit only the head of the pad.

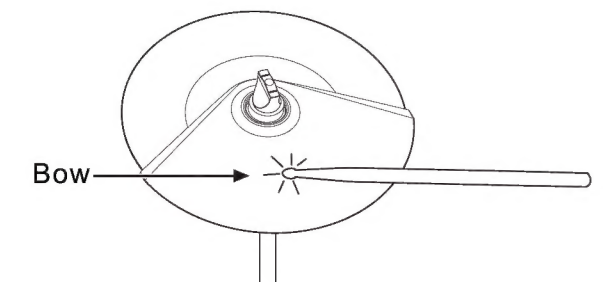Head

*Kick

Head Shot
Hit only the head of the pad.

Head
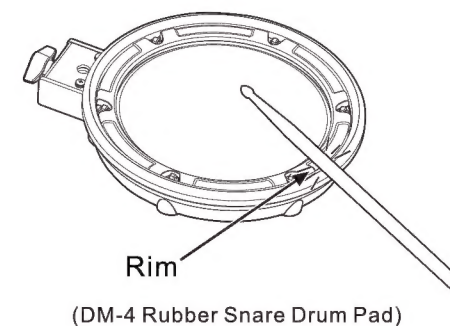
*Cymbals (Crash Ride)

Bow Shot
Playing the middle area of the cymbal.

Bow

Edge Shot
When striking the edge with the shoulder of the stick.
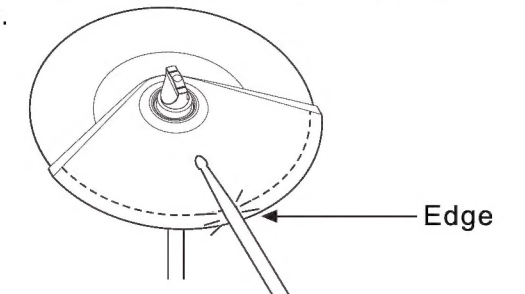
Edge

Choking a Cymbal
Choking the cymbal's edge with the hand immediately after hitting the cymbal will mute or choke the sound, just like with a real cymbal. The Choke function only works when you grasp in the area.

Sensing area

*Hi-Hat

Open/Closed
The hi-hat sound will change smoothly between open and closed depending on pressure applied to the hi-hat control pedal. Foot closed and foot splash sounds are possible.

Bow Shot
Hit the middle area of the hi-hat pad.
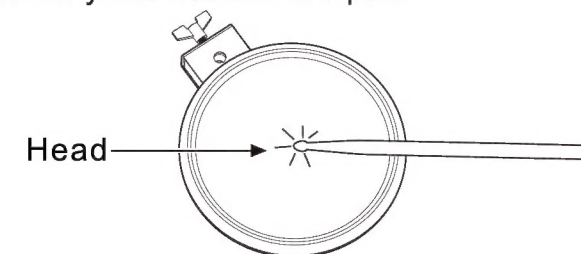
Bow

Choke a Cymbal
Choke the cymbal's edge with the hand immediately after hitting the cymbal will mute or choke the sound, just like with a real cymbal. The choke function only works when you grasp in the area.
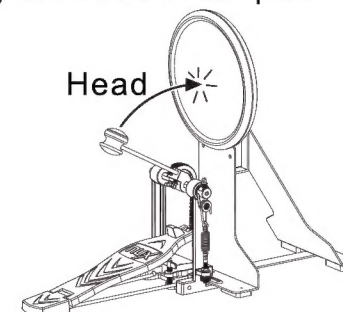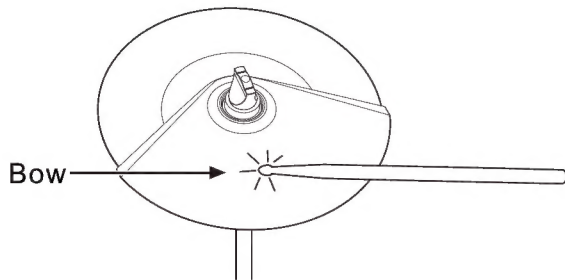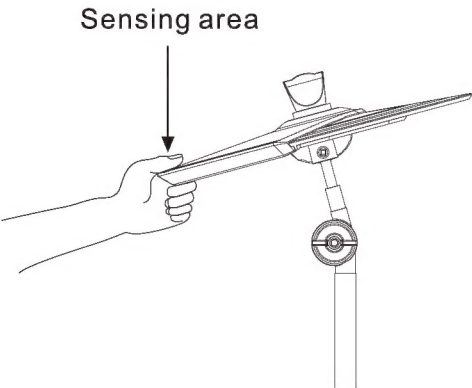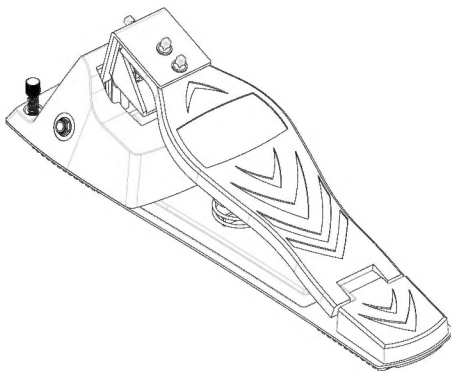
Sensing area

*Hi-Hat Control Pedal

Open Hi-Hat
Strike the hi-hat without pressing the pedal.

Closed Hi-Hat
Strike the hi-hat with the pedal pressed.

DRUM KIT OPERATION

Selecting a Drum Kit

When you turn on the DM-4S/DM-4, you are in drum kit mode. A drum kit is a combination of the sounds and settings for each pad and pedal, as well as ambience.

PAD
01PRKit1
Preset
DRUM KIT

1. Press the KIT ▲ and ▼ buttons to select drum kit.

COACH   CLICK   SONG   DRUM
KIT ▼   ▲ KIT
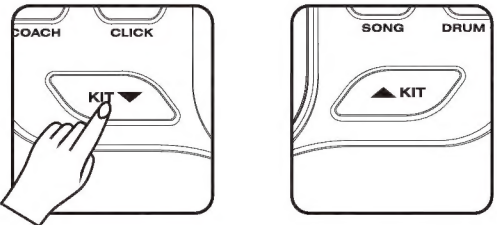
2. Press the KIT ▲ and ▼ buttons under any mode will get back to DRUM KIT mode.

Setting the Drum Kit

1. Use the KIT ▲ and ▼ buttons to select the drum kit that you want to edit.
2. Press the MENU button.

PAD   SNARE
01+++MENU+++
DRUM KIT 1-PAD SET   ▼
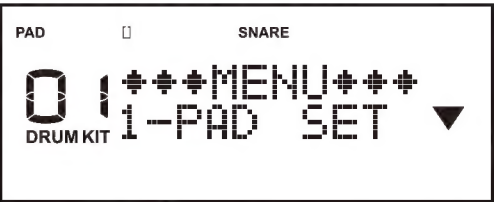
3. Use the ▲ and ▼ buttons to select the desired menu.
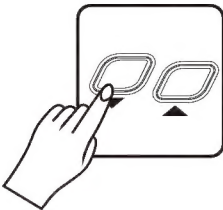
4. Turn the VALUE dial to select the pad which you want to edit. (You also can select the pad through striking the pad you want to edit)
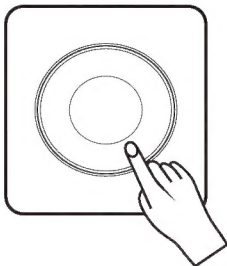
5. When you've selected the desired menu, press the OK button.
   Example: PAD SET MENU

PAD   SNARE
01 PAD SET
DRUM KIT ▸Tone   ▼
SNARE2
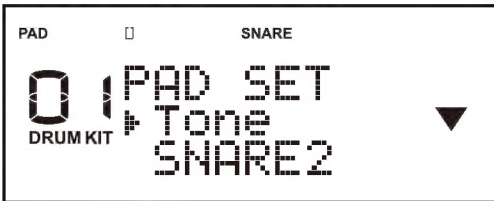
6. When you've finished making settings, press the MENU button; you'll return to the DRUM KIT screen.

Pad Settings

1. In the menu screen, choose "PAD SET" and press the OK button.

```
PAD        SNARE
01 PAD SET
DRUM KIT ▶Tone    ▼
         SNARE2
```

2. Use the ▲ and ▼ buttons to select a parameter.
3. Strike a pad to select the pad whose settings you want to edit.
4. Use the VALUE dial to edit the setting.
5. Press the OK button to return to the "MENU" screen.

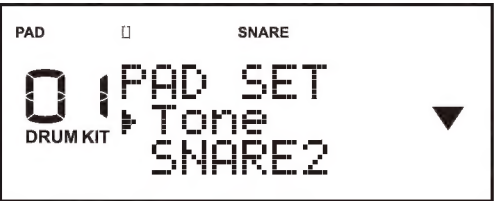| Screen Display	Parameter	Value	Description
01 PAD SET ▶Tone SNARE2	TONE	SNARE1-SNARE25	Selects instrument type
01 PAD SET ▶Volume 100	VOLUME	0-127	Specifies the instrument volume
01 PAD SET ▶Pan CENTER	PAN	L64-CENTER-R63	Specifies Instrument pan position
01 PAD SET ▶Pith 0	PITCH	-8—0—+8	Specifies Instrument pitch
01 PAD SET ▶Curve LINEAR	CURVE	LINEAR LOG EXP LOUD	Adjusts the curve of volume change in response to your playing velocity
01 PAD SET ▶REV LEVEL 64	REVERB LEVEL	0-127	Specifies the instrument reverb level
01 PAD SET ▶CHR LEVEL 64	CHORUS LEVEL	0-127	Specifies the instrument chorus level

LINEAR
The standard setting. This produces the most natural correspondence between playing dynamics and volume change.

Volume ↑ → Striking force
LINEAR
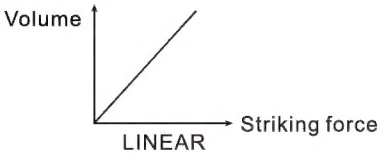
LOG
Compared to LINEAR, a soft playing produces a greater change.
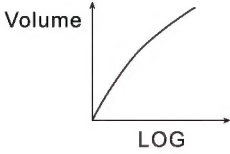
Volume ↑
LOG

EXP
Compared to LINEAR, strong dynamics produce a greater change.
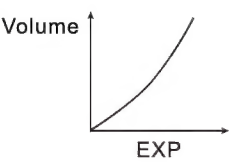
Volume ↑
EXP

LOUD
Very little dynamic response, making it easy to maintain strong volume levels. If using drum triggers, these settings help maintain stable levels.

Volume ↑ → Striking force
LOUD
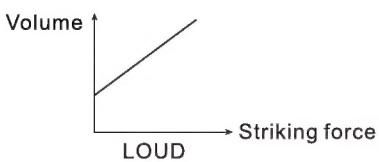
Setting Effects in a Drum Kit

1. In the menu screen, choose "EFX SET" and press the OK button.

```
PAD          SNARE
01 ✦✦✦MENU✦✦✦ ▲
DRUM KIT 2-EFX SET  ▼
```
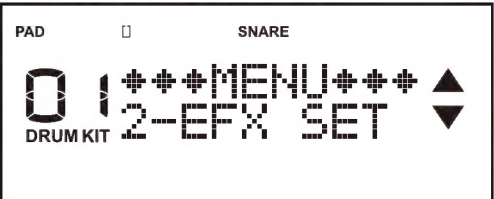
2. Use the UP and DOWN buttons to select a parameter.
3. Use the VALUE dial to edit the setting.
4. Press the OK button to return to the "MENU" screen.

Screen Display	Parameter	Value	Description
01 EFX SET ▶REV STYLE ▼ OFF	REVERB STYLE	OFF ROOM1 ROOM2 ROOM3 HALL1 HALL2 PLATE DELAY PAN DELAY	Selects reverb type. When selecting OFF, the reverb turn off.
01 EFX SET ▶CHR STYLE ▼ OFF	CHORUS STYLE	OFF CHORUS1 CHORUS2 CHORUS3 CHORUS4 FEEDBACK FLANGER SHORT DELAY FB DELAY	Selects chorus type. When selecting OFF, the chorus turn off.
01 EFX SET ▶EQ SWITCH ON	EQ SWITCH	ON/OFF	Turns ON/OFF the EQ function.
01 EFX SET ▶EQLOW 0dB	EQ-LOW	-12db—+12db	Adjusts the low frequency
01 EFX SET ▶EQHIGH 0dB	EQ-HIGH	-12db—+12db	Adjusts the high frequency

Naming a Drum Kit

1. In the menu screen, choose "3-KIT NAME" and press the OK button.

```
PAD          SNARE
01 +++MENU+++ ▲
DRUM KIT 3-KIT NAME ▼
```
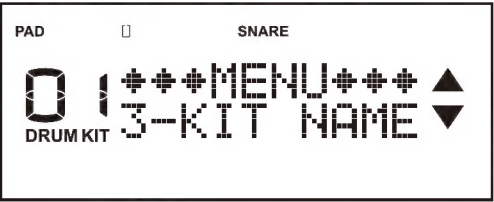
2. Press the UP and DOWN button to move the cursor to the character that you want to edit.

3. Use the VALUE dial to change the letters.

```
PAD          SNARE
01 KIT NAME
DRUM KIT PRKit1      ▼
```

4. Press the OK button to return to the "MENU" screen.

Saving a Drum Kit

1. In the menu screen, choose "4-KIT SAVE" and press the OK button.

```
PAD          SNARE
01 +++MENU+++ ▲
DRUM KIT 4-KIT SAVE ▼
```
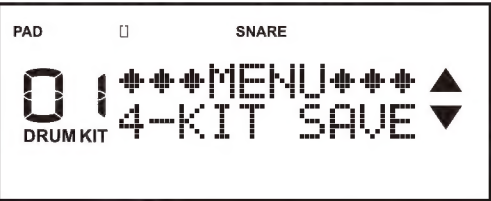
2. Use the VALUE dial to choose the drum kit number.

```
PAD          SNARE
01 KIT SAVE
DRUM KIT ►Dest: 26
         OK ?
```

3. Press the OK button to execute the save operation.

4. When operation is completed, you'll be returned to the drum kit screen automatically.

DEMO FUNCTION

1. In the drum kit mode, press SONG button to enter into the DEMO mode.

```
       ⬭
      SONG
```

```
PAD      ⬭
SONG
01 SONG1
         Preset
```

NOTE: *Preset indicates DEMO in the device User indicates user record. SD indicates DEMO in SD card*

2. Use the VALUE dial to choose the demo song you want to play.

3. Press the PLAY button to play the song.

4. You can turn off the drum part of the demo song by pressing the DRUM OFF button.

NOTE: *Each demo song has their own tempo.*

Song setting
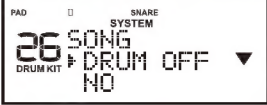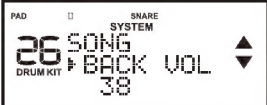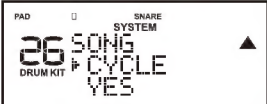
1. In the menu screen, choose "6-SONG" and press the OK button.
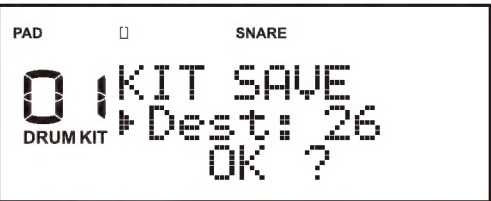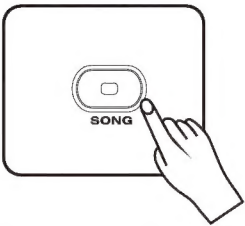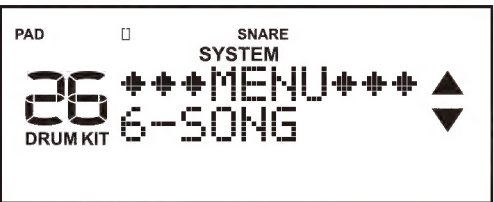
```
PAD      ⬭   SNARE
            SYSTEM
26 +++MENU+++ ▲
DRUM KIT 6-SONG      ▼
```

2. Press the UP and DOWN button to select a parameter.

3. Use the VALUE dial to adjust the parameter value .

```
PAD      ⬭   SNARE
            SYSTEM
26 SONG
DRUM KIT ►DRUM OFF ▼
         NO
```
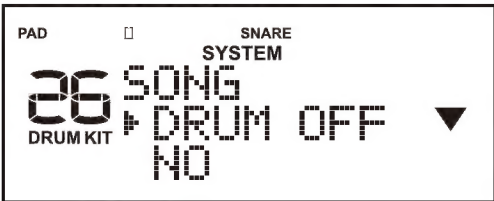
4. Press the OK button to return the MENU.

Screen Display	Parameter	Value	Description
26 SONG ►DRUM OFF NO	DRUM OFF	NO/YES	Turns ON/OFF the drum part of a song.
26 SONG ►BACK VOL 38	BACK VOLUME	0-127	Adjusts the volume of the backing track.
26 SONG ►CYCLE YES	CYCLE	NO/YES	Switchs on/off loop play.

NOTE:
*The parameter will be saved automatically when exiting this mode.
(except DRUM OFF parameter)*

METRONOME FUNCTION

Press the CLICK button. The metronome starts and the screen will indicate the tempo.

2. Press the UP and DOWN button to select a parameter.

3. Use the VALUE dial to adjust the parameter value.

1. In the menu screen, choose "5-CLICK" and press the OK button.
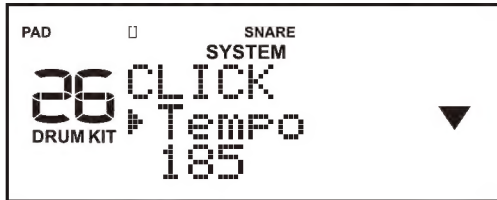
4. Press the OK button to return the MENU.

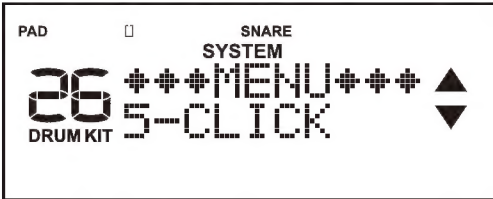| Screen Display	Parameter	Value	Description
	TEMPO	40-220	Specifies the tempo of the metronome.
	BEAT	1-9	Specifies the time signature of the metronome.
	RHYTHM	♩ ♫ ♫ ♫	Specifies the note value that will be sounded by the metronome.
	VOLUME	0-127	Specifies the volume of the metronome.
	SOUND	ELEC ONE、 ELEC TWO	Specifies the sound of the metronome.

NOTE: *The parameter will be saved automatically when exiting this mode.*

RECORDING AND PLAYBACK FUNCTION

Please first select the drum kit that you want to use for recording.

1. Press the REC button, and the DM-4S/DM-4 will enter recording-standby mode.

2. Hit any pad/pedal and recording begins.
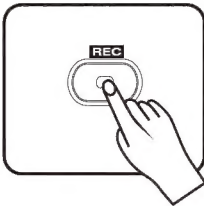
3. To stop recording, press the REC button again. If you exceed the maximum recording time, recording stops automatically.

4. Press the PLAY button to PLAYBACK you recorded.

5. When recording, press SONG button to turn on the demo song , so you can record your play with backing track. (when SONG light is lit, it means the demo song is playing while recording at the same time.)

NOTE:
1. when recording, if no drum signal input for more than 4s, it will stop recording and displays COMPLETE!
2. when recording, if memory is full, it will stop recording and display MEMFULL!

COACH FUNCTION

1. Under Drum Kit Mode, press COACH button to turn on Coach function.

```
PAD        COACH
01 ◆Practice◆ ▼
   TIME CHECK
```

2. Press Up/Down to select the training function and press OK to enter, or press CLICK button start training.

```
PAD        COACH
01   CLICK
     to Start
   TIME CHECK
```
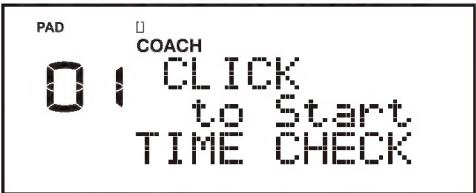
● **TIME CHECK**
You can train your timing under this mode.

```
PAD        COACH
01 ◆Practice◆ ▼
   TIME CHECK
```

1) In TIME CHECK mode, press CLICK button to start practicing.

   NOTE: During practicing, you can change the tempo by turning the VALUE knob.

```
PAD        COACH
01 45-1 ♩=131
        52%      ▼
   S-----♩-----f
```
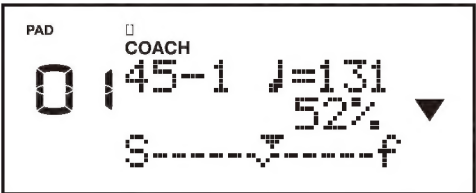
2) The LCD shows if your timing matches the metronome. The triangle on the LCD moving towards S means you are slow compared to the metronome; towards F means you are fast. It also shows the percentage of your accuracy.

3) In TIME CHECK mode, press MENU button to set parameters.

   Use Up/Down buttons to select the parameter item that you want to edit;

   Turn the VALUE knob to change the value.

```
PAD        COACH
01 TIME CHECK
   ▶Tempo
     185
```
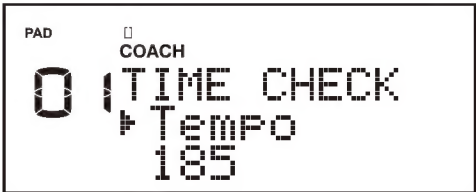
● **TEMPO CHECK**
Under this mode, you can practice in a consistent tempo.

```
PAD        COACH
02 ◆Practice◆ ▲
   TEMPOCHECK ▼
```

1) In TEMPO CHECK mode, press CLICK button to start practicing.

   NOTE: During practicing, you can change the tempo by turning the VALUE knob.

2) Sync the tempo of the pads and the metronome.

   NOTE: The more accurate you play, the less volume the metronome sounds. The LCD also shows the percentage of your accuracy.

```
PAD        COACH
02 2-3 ♩=131
       52%
   ■ ■ ○
```

3) In TEMPO CHECK mode, press MENU button to set parameters.

   Use Up/Down buttons to select the parameter item that you want to edit;

   Turn the VALUE knob to change the value.

```
PAD        COACH
01 TEMPOCHECK
   ▶Tempo
     185
```
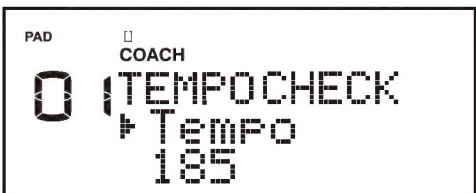
COACH FUNCTION

● **QUIET COUNT**
Under this mode, the metronome sound will be alternately on and off for you to train your timing.

```
PAD        COACH
03 ◆Practice◆ ▲
   QUIETCOUNT ▼
```

1) In QUIET COUNT mode, press CLICK to start practicing.

   NOTE: During practicing, you can change the tempo by turning the VALUE knob.

2) The metronome will play for a few bars, and the LCD will display "Ready" at the last bar.

```
PAD        COACH
03 4-1 ♩=131
   Ready
```
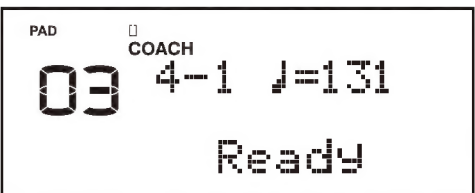
3) When the metronome sound is off (metronome still counting internally), the LCD will display "Quiet". You keep playing in accordance to the tempo in your memory.

```
PAD        COACH
03 1-◆ ♩=131
   Quiet
```
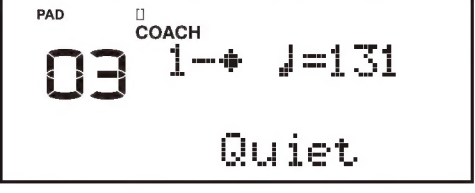
4) When the metronome sound comes back again, the LCD will display the accuracy of your playing during the time when the metronome sound was off.
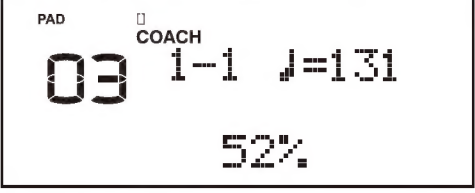
```
PAD        COACH
03 1-1 ♩=131
       52%
```

5) In QUIET COUNT mode, press MENU button to set parameters.

   Use Up/Down buttons to select the parameter item that you want to edit;

   Turn the VALUE knob to change the value.

```
PAD        COACH
03 QUIETCOUNT
   ▶Count     ▼
     4
```

● **AUTO UPDOWN**
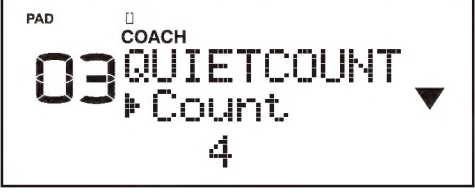
```
PAD        COACH
04 ◆Practice◆ ▲
   AUTOUPDOWN
```

1) In AUTO UP DOWN mode, press CLICK to start practicing.

   NOTE: During practicing, you can change the tempo by turning the VALUE knob.

2) Sync the tempo of the pads and the metronome.

```
PAD        COACH
04 1-1 ♩=120
       00%
   120→160
```
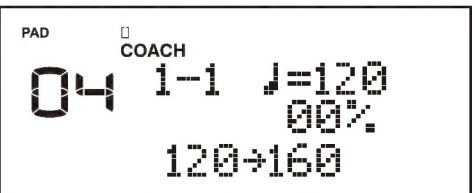
The tempo of the metronome will change between the first tempo and the second tempo. You accuracy will be display on the LCD.ill synchronize with the pads.

```
PAD        COACH
04 8-1 ♩=127
       70%
   120→160
```
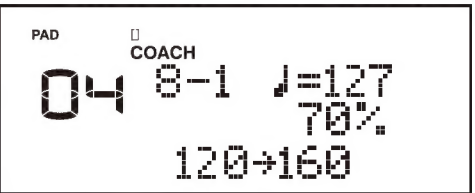
3) In QUIET COUNT mode, press MENU button to set parameters.

   Use Up/Down buttons to select the parameter item that you want to edit;

   Turn the VALUE knob to change the value.

```
PAD        COACH
04 AUTOUPDOWN
   ▶Rate      ▼
     1
```
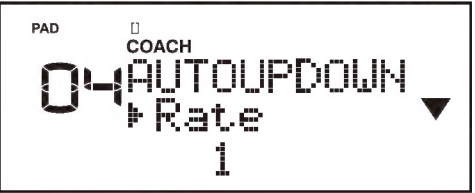
SYSTEM SETTINGS

Pad settings

1. In the menu screen, choose "7-TRIGGER" and press the OK button.

2. Use the VALUE knob to choose the pad you want to edit.

3. Press the UP and DOWN button to select a parameter item.

4. Use the VALUE knob to change the parameter value.

5. Press the OK button to return the MENU.

01 +++MENU+++
7-TRIGGER

Screen Display	Parameter	Value	Description
01 TRIGGER ▸Sensitive 1.0	SENSITIVE	0.1-3.2	You can adjust the sensitivity of the pads to accommodate your personal playing style. Higher sensitivity allows the pad to produce a loud volume even when played softly. Lower sensitivity will keep the pad producing a low volume even when played forcefully.
01 TRIGGER ▸Thresh 0	THRESHOLD	0-16	This setting allows a trigger signal to be received only when the pad is above a determined dynamic level(velocity). This can be used to prevent a pad from sounding because of vibrations from other pads.

Example: B will sound but A and C will not sound.
When set to a higher value, no sound is produced when the pad is struck lightly. Gradually raise the "Threshold" value while striking to pad.
Check this and adjust accordingly. Repeat this process until you get the perfect setting for your playing style.

Screen Display	Parameter	Value	Description
01 TRIGGER ▸Scan-T 2ms	Scan Time	2ms-8ms	Specifies the detection time for the trigger signal. Since the rise time of the trigger signal waveform may differ slightly depending on the characteristics of each pad or acoustic drum trigger(drum pickup), you may notice that identical hits(velocity) may produce sound at different volumes. If this occurs, you can adjust the "Scan Time" so that your way of playing can be detected more precisely.

While repeatedly hitting the pad at a constant force, gradually raise the Scan Time value from 2 ms, until the resulting volume stabilizes at the loudest level. At this setting, try both soft and loud strikes, and make sure that the volume changes appropriately.
As the value is set higher, the time it takes for the sound to be played increases. Set this to the lowest value possible.

Screen Display	Parameter	Value	Description
01 TRIGGER ▸Mask-T 16ms	Mask Time	4ms-64ms	This setting prevents double triggering. When playing a kick trigger, the beater can bounce back and hit the head a second time immediately after the intended note—with acoustic drums sometimes the beater stays against the head-is causes a single hit to"double trigger"). The Mask Time setting helps to prevent this. Once a pad has been hit, any additional trigger signals occurring within the specified 4-64 msec) will be ignored. Adjust the "Mask Time" value while playing the pad.

When using a kick trigger, try to let the beater bounce back and hit the head very quickly, then raise the "Mask Time" value until there are no more sounds made by the beater rebound.

* When set to a high value, it will be difficult to play very quickly. Set this to as low a value as you can.

Screen Display	Parameter	Value	Description
01 TRIGGER ▸Retrig-C 5	Retrig-cancel	0-16	This setting prevents spurious re-triggering. Important if you are using acoustic drum triggers. Such triggers can produce altered waveforms, which may also cause inadvertent sounding at Point A in the figure (Re-trigger). This occurs in particular at the decaying edge of the waveform. Retrig Cancel detects such distortion in and prevents re-triggering from occurring.

While repeatedly striking the pad, raise the Retrig Cancel value until re-triggering no longer occurs.

* Although setting this to a high value prevents retriggering, it then becomes easy for sounds to be omitted when the drums played fast (roll etc.). Set this to the lowest value possible while still ensuring that there is no retriggering.

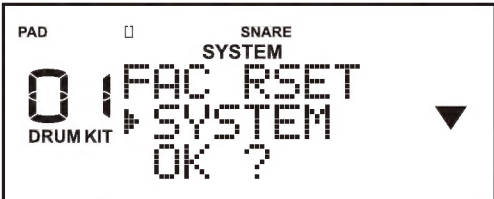| Screen Display	Parameter	Value	Description
01 TRIGGER ▸X-Talk 50%	X-Talk cancel	0-80%	This setting cancels crosstalk which means that when you play one pad you hear a sound coming from another pad. This can happen when two pads are installed on the same stand. In some cases you can prevent crosstalk by increasing the distance between the two mounted pads.
01 TRIGGER ▸Rim Gain 1.0	Rim Gain	0.1-3.2	You can adjust the relation between your playing velocity (force) on the rim/edge and the resulting volume level. Higher value allows the rim/edge to produce a loud volume even when played softly. Lower value will keep the rim/edge producing a low volume even when played forcefully.

NOTE: *The parameter will be saved automatically when exiting this mode.*
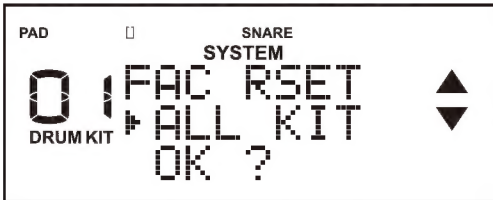
Restoring the Factory Settings

1. In the MENU, choose OPTIONS to enter the setting interface.
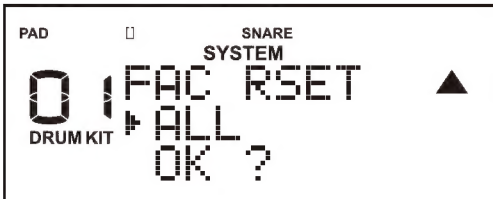   Press▲▼key to choose the FAC RESET item, Press OK button to enter the interface of FAC RESET menu.

```
PAD    □ KICK
              SYSTEM
01 OPTIONS
DRUM KIT  ▶FAC RSET    ▼
       OK ?
```
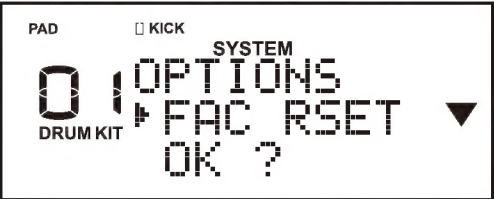
2. Press UP and DOWN to choose the options you want to restore:

   a. Restore the system data such as trigger, song, click etc.

```
PAD    □      SNARE
              SYSTEM
01 FAC RSET
DRUM KIT  ▶SYSTEM     ▼
       OK ?
```

b. Restore all data of drum kit.

```
PAD    □      SNARE
              SYSTEM
01 FAC RSET   ▲
DRUM KIT  ▶ALL KIT    ▼
       OK ?
```

c. Restore all data.

```
PAD    □      SNARE
              SYSTEM
01 FAC RSET   ▲
DRUM KIT  ▶ALL
       OK ?
```
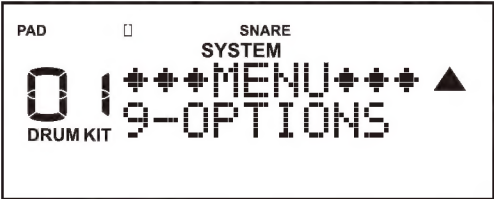
3. Press the OK button to return the MENU.

Basic Settings

1. In the MENU choose "9-OPTIONS" and press the OK button.

```
PAD    □      SNARE
              SYSTEM
01 +++MENU+++   ▲
DRUM KIT  9-OPTIONS
```

2. Press UP and DOWN to choose the options you want to edit.

3. Use the VALUE knob to change the parameter value.

4. Press the OK button to return the MENU.

Screen Display	Parameter	Value	Description
`01 OPTIONS ▶LCD Contr 6`	LCD Contrast	1-10	Adjusts the LCD Contrast.
`01 OPTIONS ▶BackLight 6`	Backlight	1-10	Adjusts the LCD brightness.
`01 OPTIONS ▶Edition V1.0`	Edition	V1.0	Shows firmware edition of the machine.
`01 OPTIONS ▶Midichan 1`	Midi channel	1-16	Display the current MIDI channel

USB-MIDI Function

The DM-4S/DM-4 is equipped with a USB connector. When connected to your computer, the USB ICON will be lit on the LCD and start to transmit the MIDI IN/OUT.

```
PAD    □
01 PRKit1
DRUM KIT
    USB  Preset
```
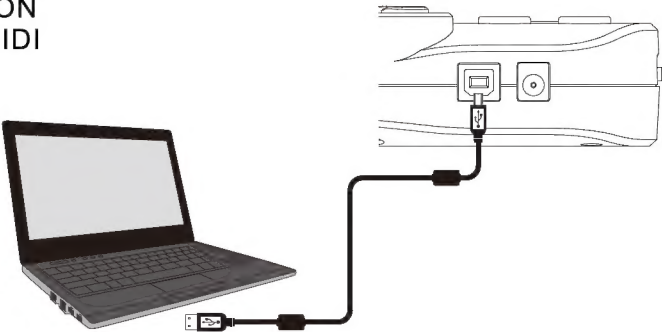
NOTE: *Before you connect the USB to computer, please close all software about USB-MIDI.*

SPECIFICATIONS

Maximum Polyphony: 64 voices
Display: Custom (backlit LCD)
Instruments : 232
Drum Kits: 50 (User: 25, Factory: 25)
Songs: 20
Recording: 10
Click Sound: Editable (Sound, Tempo, Rhythm Type, Beat, Volume)
MIDI Function: USB-MIDI
Capacity: SD card (MIDI Playing, MIDI Format 0/Format 1 Supported)
Triggers: Tomx3, Snare, Hi-Hat, Crashx2, Ride, Kick
Interfaces: Headphones, USB-MIDI, SD card, AUX IN, OUTPUTS
Power Supply: DC 9V (⊖─➤─⊕)

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarked
Basic default		10	1-16	
Channel changed		No	No	
Note		0-127	0-127	
Velocity:	Note on	Yes	Yes	
	Note off	No	Yes	
After Key's		No	Yes	
Touch Channel's		No	Yes	
Control change:	0	No	No	Bank select
	1	No	Yes	Modulation
	5	No	Yes	Portamento time
	7	No	Yes	Volume
	10	No	Yes	Pan
	11	No	Yes	Expression
	64	No	Yes	Sustain pedal
	65	No	Yes	Portamento on/off
	66	No	Yes	Sostenuto pedal
	67	No	Yes	Soft pedal
	120	No	Yes	All sound off
	121	No	Yes	Reset all controllers
	123	No	Yes	All note off
Program change		No	Yes	Yes
System exclusive		No	No	No

Drum Kit Preset Name

Number	Name
01	Original
02	Standard
03	Pop
04	Studio
05	Studio1
06	Seesion
07	Metal Mach
08	Metal
09	Speed Metal
10	Hard Rock
11	Dry Rock
12	Classic Dry
13	Funk
14	Funk Tape
15	Moderm
16	Nashville
17	Jazz
18	Blues
19	Blues Rock
20	808
21	OpaSid
22	Slam
23	Synthgaze
24	Mirror
25	Folk

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Made in China